PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY To: WRITTEN OPINION OF THE see form PCT/ISA/220 INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43*bis*.1) Date of mailing (day/month/year) see form PCT/ISA/210 (second sheet) Applicant's or agent's file reference FOR FURTHER ACTION see form PCT/ISA/220 See paragraph 2 below International application No. International filing date (day/month/year) Priority date (day/month/year) PCT/JP2005/004736 10.03.2005 11.03.2004 International Patent Classification (IPC) or both national classification and IPC F02D41/02, F01N3/025, F02D41/12 Applicant TOYOTA JIDOSHA KABUSHIKI KAISHA 1. This opinion contains indications relating to the following items: Box No. I Basis of the opinion ☐ Box No. II **Priority** ☐ Box No. III Non-establishment of opinion with regard to novelty, Inventive step and industrial applicability ☐ Box No. IV Lack of unity of invention Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement ☐ Box No. VI Certain documents cited ☐ Box No. VII Certain defects in the international application Box No. VIII Certain observations on the international application **FURTHER ACTION** 2 If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notifed the International Bureau under Rule 66.1 bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220. For further details, see notes to Form PCT/ISA/220. Name and mailing address of the ISA: **Authorized Officer**

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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/JP2005/004736

_	Box N	lo. I Basis of the opinion	
1.	With r	With regard to the language , this opinion has been established on the basis of the international application is the language in which it was filed, unless otherwise indicated under this item.	
	la	his opinion has been established on the basis of a translation from the original language into the following nguage , which is the language of a translation furnished for the purposes of international search under Rules 12.3 and 23.1(b)).	
2.	With r	With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of: a. type of material:	
	a. type		
		a sequence listing	
		table(s) related to the sequence listing	
	b. format of material:		
		in written format	
		in computer readable form	
c. time of filing/furnishing:		of filing/furnishing:	
		contained in the international application as filed.	
		filed together with the international application in computer readable form.	
		furnished subsequently to this Authority for the purposes of search.	
3.	ha CC	addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto as been filed or furnished, the required statements that the information in the subsequent or additional opies is identical to that in the application as filed or does not go beyond the application as filed, as oppropriate, were furnished.	
1	Additional comments:		

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

4-7

No: Claims

1-3,8

Inventive step (IS)

Yes: Claims

4-6

No: Claims

1-3,7,8

Industrial applicability (IA)

Yes: Claims

1-8

No: Claims

2. Citations and explanations

see separate sheet

Re Item V.

1 Reference is made to the following document:

D1: EP 1 388 647 D2: EP-A-1 234 959

2 INDEPENDENT CLAIM 1

The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claim 1 is not new in the sense of Article 33(2) PCT. Document D1 discloses (cf. fig. 1) an exhaust purifying apparatus 12, 13 for an internal combustion engine 1, the apparatus having a regeneration control section 20, wherein the regeneration control section controls regeneration of an exhaust purification catalyst through heating control 14, in which fuel is supplied to the exhaust purification catalyst, thereby Increasing a bed temperature of the catalyst, wherein: a determining section that determining whether the vehicle is driving downhill, wherein the regeneration control section suspends the heating control when the determining section determines that the vehicle is driving downhill (cf. par. [0007]; par. [0014] to par. [0017]; par [0070]).

3 INDEPENDENT CLAIM 8

The same reasoning applies, mutatis mutandis, to the subject-matter of the corresponding independent claim 8, which therefore is also considered not new.

4 DEPENDENT CLAIMS 2, 3, 7

Dependent claims 2, 3, 7 do not contain any features which, in combination with the features of any claim to which they refer, meet the requirements of the PCT in respect of novelty or inventive step, see documents D1 and D2 and the corresponding passages cited in the search report.

5. DEPENDENT CLAIMS 4, 5, 6

The content of dependent claims 4, 5 and 6 is neither disclosed nor obviously suggested in his present form by any of the documents cited in the search report.

6. The industrial applicability of the subject-matter claims 1 to 8 of the present

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

International application No.

PCT/JP2005/004736

application is evident (Article 33(4) PCT).